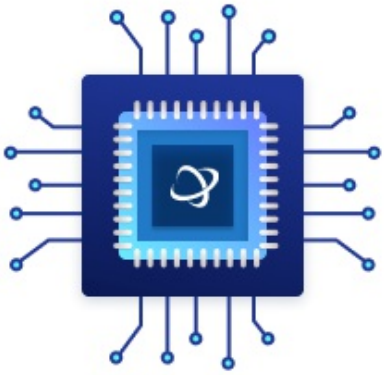
XDPL8220

Data Sheet

Digital configurable multimode flyback XDP™ control IC for LED drivers ideally suited for smart lighting

Manufacturers	Infineon Technologies Corporation
Package/Case	
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for XDPL8220 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The digital control IC XDPL8220 connects a quasi-resonant PFC with a quasi-resonant flyback digital controller with primary side regulation. The multi-control operation for constant voltage, constant current and limited power enables to build highly, versatile LED drivers (e.g. window LED driver). While the XDP™ digital power control IC XDPL8220 enables a variety of systems, the main application field is advanced dual LED drivers for stage indoor and outdoor. The device is fine tunable to the needs of the target application. A comprehensive set of parameter for adjustment of operating constraints provides high flexibility.

Features

Constant current, constant voltage, limited power with primary-side regulation

Supports AC and DC input

Nominal input voltage range 100VAC – 277VAC or 127VDC – 430VDC

Reference board efficiency > 90%

Stand-by power <100mW

Power factor >0.9 over wide load range

THD <15% compliant with IEC 61000-3-2 class C over wide load range

Digital control selects automatically best mode of operation, depending on actual requirements

QRM (quasi-resonant mode)

Application

Flicker free LED driver for indoor or outdoor applications

DCM (discontinuous conduction mode)

QRM (quasi-resonant mode)

DCM (discontinuous conduction mode)

Dimming with PWM input and Analog output current modulation

Temperature guard with adaptive thermal management with internal and/or external sensor

Digital parameters

Relevant error conditions are monitored and protected

Undervoltage

Overvoltage

Open load

Output shorted

Undervoltage

Overvoltage

Open load

Output shorted

The XDPL8220 enables to implement high performance and innovative advanced LED driver with small effort

Reduced BoM minimizes system cost and increases flexibility

High reliability features improve lifetime of the driver

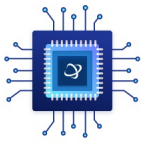
Fast design cycle reduces time to market and efforts for value products

Supply chain efficiency optimizes stock keeping and enables high flexibility

Related Products

XDPE132G5D-G000

Infineon Technologies Corporation



XDPL8105

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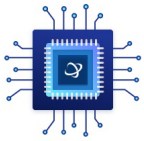

XDPL8218

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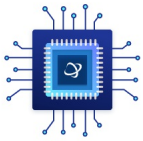

XDPE192C3A-0000

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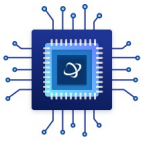

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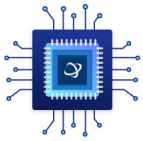

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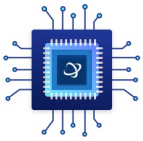

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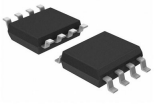

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